

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1505-9RF34-2FW1-Z
D11+G23+H3A+K11+N23



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	K49	Radial force maximum	6250 N
Gearbox basic type	Bevel geared	Max. permissible radial force with Mmax	6250 N
Gearbox size	49	Moment of inertia	0.33 kgcm ²
Transmission stages	3	Torsional stiffness	41 Nm/°
Transmission (ratio)	63.59	Efficiency	0.92
Gear number relation	3116/49	Mounting position	M1-A
Output moment maximum (short-time)	420 Nm	Mounting type	Flange version (A type)
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft S disk standard I
Output speed short-time	71 rpm	Output shaft dimension	HS35 mm
Emergency off output moment (1000 cycles)	710 Nm	Gearbox flange diameter	200 mm

Figure 2 torque support

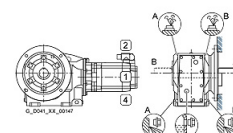
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General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	40.14 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	75
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Food-grade oil CLP ISO H1 VG460
Output shaft sealing	Seal longer service life
Oil charge	0.60 l



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Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	6000 rpm
Motor type	Compact	Maximum torque	50.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	55.0 A
Shaft height	80 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2880 rpm
Rated speed	4500 rpm	Optimum power	2.95 kW
Rated torque (100K)	0.10 Nm	Recommended Motor Module	
Rated power	0.05 kW	Rated inverter current	18.0 A
Rated current (100K)	0.71 A	Maximum inverter current	54.0 A
Static torque	15.50 Nm	Maximum torque	49.3 Nm
Static current	14.80 A	Holding brake	
Moment of inertia	29.50000 kgcm ²	Holding brake	with holding brake
Efficiency η	82 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1	Braking torque M_{1Br} / M_{2Br}	11.00 Nm
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Holding torque M_{4Br}	22.00 Nm
		Opening time	200.0 ms
		Closing time	60.0 ms
		Maximum switching energy per braking action	1400.0 J

Info servo geared motor

Outside the standard temperature range of -10 to +40 °C, further selectable options must be observed, in addition to the lubricant selection.

Further, you have to check the suitability of the components and options used for the requested temperature range.

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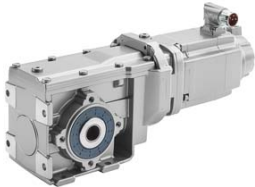


Figure similar

Options		Standards	
D11	M1-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G23	Seal longer service life		
H3A	Hollow shaft S disk standard I	CE marking	EN 60034
K11	Food-grade oil CLP ISO H1 VG460		
N23	Standard holding brake (permanent magnet brake)		